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L16	multipl$ and multiple near AAL2	33	L16
L15	L14 and multiple$ near AAL2	0	L15
L14	multipl$ and multiple near AAL-2	5	L14
L13	plurality near AAL-2 and multiplex$	0	L13
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L9	AAL2 near multiple$ and stream$	59	L9
L8	L6 and multiplex$ near all	0	L8
L7	AAL-2 near stream	2	L7
L6	L4 and multiple$	23	L6
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L4	L3 and singl$ near ATM	23	L4
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1 A simulation study of IP switching

Steven Lin, Nick McKeown

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, citings, index terms

Recently there has been much interest in combining the speed of layer-2 switching with the features of layer-3 routing. This has been prompted by numerous proposals, including: IP Switching [1], Tag Switching [2], ARIS [3], CSR [4], and IP over ATM [5]. In this paper, we study IP Switching and evaluate the performance claims made by Newman et al in [1] and [6]. In particular, using ten network traces, we study how well IP Switching performs with traffic found in campus, corporate, and Internet S ...

2 An architecture for packet-striping protocols

Adiseshu Hari, George Varghese, Guru Parulkar

November 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(220.97 KB) Additional Information: full citation, abstract, references, index terms, review

Link-striping algorithms are often used to overcome transmission bottlenecks in computer networks. Traditional striping algorithms suffer from two major disadvantages. They provide inadequate load sharing in the presence of variable-length packets, and may result in non-FIFO delivery of data. We describe a new family of link-striping algorithms that solves both problems. Our scheme applies to any layer that can provide multiple FIFO channels. We deal with variable-sized packets by showing h ...

Keywords: causal fair queuing, fair queuing, load sharing, multilink PPP, packet striping, stripe protocol, striping

3 A control and management network for wireless ATM systems

Stephen F. Bush, Sunil Jagannath, Ricardo Sanchez, Joseph B. Evans, Gary J. Minden, K. Sam Shanmugan, Victor S. Frost

September 1997

Wireless Networks, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(573.05 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the design of a control and management network (orderwire) for a mobile wireless Asynchronous Transfer Mode (ATM) network. This mobile wireless ATM network is part of the Rapidly Deployable Radio Network (RDRN). The orderwire system consists of a packet radio network which overlays the mobile wireless ATM network. Each network element in this network uses Global Positioning System (GPS) information to control a beamforming antenna subsystem which provides for spatial re ...

4 RDRN: a prototype for a rapidly deployable radio network

Ricardo J. Sánchez, Joseph B. Evans, Gary J. Minden, Victor S. Frost, K. Sam Shanmugan

April 1998 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references

This paper reports on the initial implementation of an experimental wireless ATM network architecture called RDRN (Rapidly Deployable Radio Network). The RDRN architecture consists of two types of transportable nodes, remote nodes (RNs) and edge nodes (ENs), which utilize GPS-derived location information to rapidly configure themselves into a high capacity wireless network operating at 1--10 Mb/s over distances as far as 10 kilometers. The initial prototype has been deployed and early experiment ...

5 Traffic behavior analysis and modeling of sub-networks

Yen-Wen Chen

August 2002 **International Journal of Network Management**, Volume 12 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(173.29 KB) Additional Information: full citation, abstract, references, index terms

In this paper, the characteristics of sub-network traffic is analyzed from the correlation point of view. It is easy to see that the traffic histogram of a sub-network has a 24-hour seasonal variation due to daily usage behavior. The auto correlation factor (ACF) and partial auto correlation factor (PACF) tests are applied first to examine the correlation of the traffic among consecutive hours and the correlation with a specific hour. The seasonal auto-regressive integrated moving average (ARIMA ...

6 Survivability performance analysis of rerouting strategies in an ATM/VP DCS survivable mesh network

Kyamakya Kyandoghere

October 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 5

Publisher: ACM Press

Full text available: pdf(2.81 MB) Additional Information: full citation, abstract, index terms

Several self-healing protocols utilizing virtual paths have been proposed in the relevant literature. Those which work in a mesh topology function according to three main rerouting strategies (though specific flooding administrations differ): local rerouting, source-destination rerouting, and local-destination rerouting. Most performance studies of self-healing protocols have considered restoration time as sole performance metric. This would have to be within the 2s threshold in order to guarant ...

Keywords: ATM/VP transport network performance metrics, rerouting strategies, survivability functions

7 A distributed networking system for multimedia internet access service using ATM over ADSL

Daniel Won-Kyu Hong, Choong Seon Hong
November 2004 **International Journal of Network Management**, Volume 14 Issue 6
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(608.19 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes a distributed networking system architecture for Internet-access service provision using ATM over xDSL technology. We describe the hierarchical network model in deploying ADSL services across the ATM access networks, which can easily accommodate the explosive growth of ADSL subscribers in the future. In addition, this paper describes the distributed networking system and its capability to provide a systemic network management using the principal networking concepts of serv ...

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1 Effective bandwidths with priorities
Arthur W. Berger, Ward Whitt
August 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 4
Publisher: IEEE Press
Full text available: pdf(388.95 KB) Additional Information: full citation, references, citings, index terms

Keywords: Laplace transforms, asynchronous transfer mode, communication system control, communication system performance, communication system planning, communication system traffic, queueing analysis

2 A signaling architecture for wireless ATM access networks
Nikos H. Loukas, Nikos I. Passas, Lazaros Merakos, Iakovos S. Venieris
March 2000 **Wireless Networks**, Volume 6 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(350.88 KB) Additional Information: full citation, abstract, references, index terms

A multiservice wireless Asynchronous Transfer Mode (ATM) access system is considered from a signaling protocol viewpoint. In an attempt to generalize and extend results and experiences obtained from the specification, design, and implementation of fixed ATM‐based access networks, we extend the concept of the broadband V interface (referred to as VB) for application to wireless ATM access networks. The proposed architecture follows the signaling structure of Broadban ...

3 ARCMA---adaptive request channel multiple access protocol for wireless ATM networks
Anna Hać, Boon Ling Chew
November 2001 **International Journal of Network Management**, Volume 11 Issue 6
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(669.87 KB) Additional Information: full citation, abstract, references, index terms

We propose a new multiple access protocol based on demand assignment. This protocol is designed to reduce contention in the request phase while minimizing transmission delay under various network (ATM) environments. Our protocol uses an adaptive scheme that changes under heavy traffic conditions, and also provides priority to certain delay-sensitive traffic.

4 Per-stream jitter analysis in CBR ATM multiplexors

Aleksandr Privalov, Khosrow Sohraby

April 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 2

Publisher: IEEE Press

Full text available: pdf(348.00 KB) Additional Information: full citation, references, citings, index terms

Keywords: ATM, asymptotic analysis, cell delay variation, cell-based networks, jitter, periodic arrivals, statistical multiplexing

5 Performance evaluation of ATM/AAL2 as switching technology in 3G mobile access networks

Óscar Mezquita Baeza, Enrico Scarrone

August 2000 **Proceedings of the 3rd ACM international workshop on Wireless mobile multimedia WOWMOM '00**

Publisher: ACM Press

Full text available: pdf(768.17 KB) Additional Information: full citation, abstract, references, index terms

In this article we focus on the transport and switching part of third generation mobile access networks. At the moment, the second generation of mobile systems is sufficiently extended everywhere and can provide services to all mobile users. The next challenge in the development of digital mobile networks is the integration of data and voice services in a unique platform. It seems to be that Asynchronous Transfer Mode technology (ATM) will be the transport technology candidate to support bo ...

6 Time-parallel simulation of cascaded statistical multiplexers

Ioanis Nikolaidis, Richard Fujimoto, C. Anthony Cooper

May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

The multiplexing of several lightly loaded links onto a more heavily loaded output link is a problem of considerable importance to the design and traffic engineering of many types of packet-oriented telecommunications equipment, including that used in Asynchronous Transfer Mode (ATM) networks. Network configurations generally require the cascaded operation of such multiplexers and switches. Important objectives to achieve small cell loss ratios while maintaining efficient utilization of the ...

7 A cell loss equalization protocol for video multiplexers

I. Nikolaidis, I. Akyildiz

October 1994 **Proceedings of the second ACM international conference on Multimedia MULTIMEDIA '94**

Publisher: ACM Press

Full text available: pdf(947.92 KB) Additional Information: full citation, abstract, references, index terms

A serious fairness problem occurs whenever homogeneous, variable bit-rate, video traffic streams are multiplexed at a finite buffer statistical multiplexer. Namely, the cell loss ratio performance varies widely across individual traffic streams. The cause of the problem is the particular random relation of the periodic frame transmission epochs of the video sources that feed the multiplexer. In this paper a protocol is presented which controls the frame transmission epochs, in order to achi ...

8 Improved loss calculations at an ATM multiplexer

Ness B. Shroff, Mischa Schwartz

August 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 4

Publisher: IEEE Press

Full text available: pdf(269.94 KB) Additional Information: full citation, references, citings, index terms

Keywords: MMPP, Markov models, admission control, bandwidth allocation, effective bandwidth, large deviations, loss probability, queuing analysis

9 On the Way to the 2.5 Gbits/s ATM Network ATM Multiplexer Demultiplexer ASIC

J. Riesco, J. C. Díaz, L. A. Merayo, J. L. Conesa, C. Santos, E. Juárez

March 1997 **Proceedings of the 1997 European conference on Design and Test EDTC '97**

Publisher: IEEE Computer Society

Full text available: pdf(488.86 KB) Publisher Site Additional Information: full citation, abstract

The present paper describes the AMDA integrated circuit (ATM Multiplexer/Demultiplexor ASIC). The circuit has two operation modes: in multiplexer mode an ATM low speed flow (up to 622 Mbits/s) is inserted in the empty slots of a high speed ATM flow (2.5 Gbits/s); in demultiplexer mode, the cells belonging to the low speed channels are extracted from the high speed ATM flow. An specific algorithm of distributed control has been developed, simulated and implemented, in order to guarantee an even b ...

Keywords: asynchronous transfer mode, ATM network, ATM multiplexer demultiplexer ASIC, AMDA integrated circuit, distributed control algorithm, bandwidth distribution, LSI-LOGIC LCB5OOK technology, CMOS IC, 622 Mbit/s, 2.5 Gbit/s, 155.52 MHz, 0.5 micron

10 An architecture for QoS analysis and experimentation

William S. Marcus

August 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 4

Publisher: IEEE Press

Full text available: pdf(732.74 KB) Additional Information: full citation, references, citings, index terms

11 The jitter time-stamp approach for clock recovery of real-time variable bit-rate traffic

Weilian Su, Ian F. Akyildiz

December 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 6

Publisher: IEEE Press

Full text available: pdf(178.70 KB) Additional Information: full citation, abstract, references, citings, index terms

When multimedia streams arrive at the receiver, their temporal relationships may be distorted due to jitter. Assuming the media stream is packetized, the jitter is then the packet's arrival time deviation from its expected arrival time. There are various ways to reduce jitter, which include synchronization at the application layer, or synchronization at the *asynchronous transfer mode* (ATM) *adaptation layer* (AAL). The new source rate recovery scheme called *jitter time-stamp* (...

Keywords: ATM adaptation layer 2 (AAL2), ATM networks, constant bit-rate (CBR),

synchronization, timing recovery, variable bit-rate (VBR)

12 Cell multiplexing in ATM networks
Zvi Rosberg
February 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 1
Publisher: IEEE Press
Full text available: pdf(1.47 MB) Additional Information: full citation, references, citings, index terms

13 A central-limit-theorem-based approach for analyzing queue behavior in high-speed networks
Jinwoo Choe, Ness B. Shroff
October 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 5
Publisher: IEEE Press
Full text available: pdf(478.74 KB) Additional Information: full citation, references, citings, index terms

Keywords: Gaussian process, asymptotic upper bound, queue lenght distribution, strong asymptotics

14 A heuristic approach of bandwidth management for video sources in ATM networks
Yen-Wen M. Chen, Jean-Lien C. Wu
February 2000 **International Journal of Network Management**, Volume 10 Issue 1
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(199.78 KB) Additional Information: full citation, abstract, references, citings, index terms

One of the most important properties in the ATM network is that the resource of the network, including buffer and bandwidth, can be flexibly managed according to different demands of various applications. The network bandwidth can be effectively allocated and utilized if the data volume of the arrival traffic can be predicted precisely. In this paper, we study the bandwidth management schemes for variable bit rate (VBR) pre‐coded MPEG video sources. The proposed bandwidth a ...

15 A two-phase combined QoS-based handoff scheme in a wireless ATM network
Anna Hać, Jing Peng
September 2001 **International Journal of Network Management**, Volume 11 Issue 5
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(241.04 KB) Additional Information: full citation, abstract, references, index terms

We describe the QoS-based rerouting algorithm that is designed to implement a two-phase inter-switch handoff scheme for wireless ATM networks. We propose to use path extension for each inter-switch handoff, and invoke path optimization when the handoff path exceeds the delay constraint or maximum path extension hops constraint. We study three types of path optimization schemes: combined QoS-based, delay-based and hop based path rerouting schemes. Copyright © 2001 John Wiley & Sons, Ltd.

16 A bibliography on performance issues ATM networks
I. Nikloaidis, Raif O. Onvural
October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5
Publisher: ACM Press

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, citings, index terms

The Asynchronous Transfer Mode (ATM) is the transport mode of choice for B-ISDN. In order for high speed networks to become a reality, a number of performance issues has to be resolved. In recent years, there has been a growing interest in the literature in developing performance models to explore a wide range of performance problems varying from understanding the performance of a switch architecture to implementing efficient congestion control mechanisms and light weight transport protocols. In ...

17 A traffic for MPEG-coded VBR streams

Marwan Krunz, Herman Hughes

May 1995 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1995 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '95/PERFORMANCE '95**, Volume 23 Issue 1

Publisher: ACM Press

Full text available: pdf(835.13 KB) Additional Information: full citation, abstract, references, citings, index terms

Compression of digital video is the only viable means to transport real-time full-motion video over BISDN/ATM networks. Traffic streams generated by video compressors exhibit complicated patterns which vary from one compression scheme to another. In this paper we investigate the traffic characteristics of video streams which are compressed based on the MPEG standard. Our study is based on 23 minutes of video obtained from an entertainment movie. A particular significance of our data is that it c ...

18 Design of an ATM switch for handoff support

Heechang Kim, H. Jonathan Chao

December 2000 **Wireless Networks**, Volume 6 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(167.56 KB) Additional Information: full citation, abstract, references, index terms

In a wireless ATM system, a network must provide seamless services to mobile users. To support this, mobility function should be added to existing ATM networks. Through a handoff operation, a mobile user can receive a service from the network without disconnecting the communication. A handoff results in connection path rerouting during an active connection. To avoid cell loss during a handoff, cell buffering and rerouting are required in the network. A handoff switch is a connection breakdown ...

19 Second moment resource allocation in multi-service networks

Edward W. Knightly

June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.62 MB) Additional Information: full citation, abstract, references, citings, index terms

A crucial problem for the efficient design and management of integrated services networks is how to best allocate network resources for heterogeneous and bursty traffic streams in multiplexers that support prioritized service disciplines. In this paper, we introduce a new approach for determining per-connection performance parameters such as delay-bound violation probability and loss probability in multi-service networks. The approach utilizes a traffic characterization consisting of the varianc ...

20 Modeling a 10 Gbit/s/port shared memory ATM switch

Tawfik Lazraq, Per Andersson, Jakob Brundin, Åke Arvidsson

December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**
Publisher: ACM Press, IEEE Computer Society
Full text available: pdf(639.78 KB) Additional Information: full citation, references, index terms

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1 Effective bandwidths with priorities
Arthur W. Berger, Ward Whitt
August 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 4
Publisher: IEEE Press
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J. Riesco, J. C. Díaz, L. A. Merayo, J. L. Conesa, C. Santos, E. Juárez

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August 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 4

Publisher: IEEE Press

Full text available: pdf(732.74 KB) Additional Information: full citation, references, citings, index terms

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Weilian Su, Ian F. Akyildiz
December 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 6
Publisher: IEEE Press
Full text available: pdf(178.70 KB) Additional Information: full citation, abstract, references, citings, index terms

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February 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 1
Publisher: IEEE Press
Full text available: pdf(1.47 MB) Additional Information: full citation, references, citings, index terms

10 Termination of Ada tasks in hardware
Lars Björnfot, Kristina Lundqvist, Göran Wall, Lars Asplund
November 1995 **Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world TRI-Ada '95**
Publisher: ACM Press
Full text available: pdf(1.29 MB) Additional Information: full citation, references

11 A model for the local area of a data communication network objectives and hardware organization
R. A. Scantlebury
October 1969 **Proceedings of the first ACM symposium on Problems in the optimization of data communications systems**
Publisher: ACM Press
Full text available: pdf(940.03 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper, together with its companions(1)(2) describes the experimental data communication network being implemented at the National Physical Laboratory. The purpose of the work is two-fold. Firstly, it will act as a model of the 'local area' network assumed, but never analysed in detail, in the NPL proposal for a possible National Data Communication System(3)(4)(5). Secondly, it will provide data communications between a wid ...

12 A central-limit-theorem-based approach for analyzing queue behavior in high-speed networks
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October 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 5
Publisher: IEEE Press
Full text available: pdf(478.74 KB) Additional Information: full citation, references, citings, index terms

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Anna Hać, Jing Peng
September 2001 **International Journal of Network Management**, Volume 11 Issue 5
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(241.04 KB) Additional Information: full citation, abstract, references, index terms

We describe the QoS-based rerouting algorithm that is designed to implement a two-phase inter-switch handoff scheme for wireless ATM networks. We propose to use path extension for each inter-switch handoff, and invoke path optimization when the handoff path exceeds the delay constraint or maximum path extension hops constraint. We study three types of path optimization schemes: combined QoS-based, delay-based and hop based path rerouting schemes. Copyright © 2001 John Wiley & Sons, Ltd.

15 A bibliography on performance issues ATM networks
I. Nikloaidis, Raif O. Onvural
October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5
Publisher: ACM Press
Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, citings, index terms

The Asynchronous Transfer Mode (ATM) is the transport mode of choice for B-ISDN. In order for high speed networks to become a reality, a number of performance issues has to be resolved. In recent years, there has been a growing interest in the literature in developing performance models to explore a wide range of performance problems varying from understanding the performance of a switch architecture to implementing efficient congestion control mechanisms and light weight transport protocols. In ...

16 A traffic for MPEG-coded VBR streams
Marwan Krunz, Herman Hughes
May 1995 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1995 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '95/PERFORMANCE '95**, Volume 23 Issue 1
Publisher: ACM Press

Full text available: pdf(835.13 KB) Additional Information: full citation, abstract, references, citings, index terms

Compression of digital video is the only viable means to transport real-time full-motion video over BISDN/ATM networks. Traffic streams generated by video compressors exhibit complicated patterns which vary from one compression scheme to another. In this paper we investigate the traffic characteristics of video streams which are compressed based on the MPEG standard. Our study is based on 23 minutes of video obtained from an entertainment movie. A particular significance of our data is that it c ...

17 Design of an ATM switch for handoff support

Heechang Kim, H. Jonathan Chao
December 2000 **Wireless Networks**, Volume 6 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(167.56 KB) Additional Information: full citation, abstract, references, index terms

In a wireless ATM system, a network must provide seamless services to mobile users. To support this, mobility function should be added to existing ATM networks. Through a handoff operation, a mobile user can receive a service from the network without disconnecting the communication. A handoff results in connection path rerouting during an active connection. To avoid cell loss during a handoff, cell buffering and rerouting are required in the network. A handoff switch is a connection breakdown ...

18 Second moment resource allocation in multi-service networks

Edward W. Knightly
June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(1.62 MB) Additional Information: full citation, abstract, references, citings, index terms

A crucial problem for the efficient design and management of integrated services networks is how to best allocate network resources for heterogeneous and bursty traffic streams in multiplexers that support prioritized service disciplines. In this paper, we introduce a new approach for determining per-connection performance parameters such as delay-bound violation probability and loss probability in multi-service networks. The approach utilizes a traffic characterization consisting of the varianc ...

19 Modeling a 10 Gbit/s/port shared memory ATM switch

Tawfik Lazraq, Per Andersson, Jakob Brundin, Åke Arvidsson
December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**
Publisher: ACM Press, IEEE Computer Society
Full text available: pdf(639.78 KB) Additional Information: full citation, references, index terms

20 Reservation-based bandwidth allocation in a radio ATM network

George M. Stamatelos, Vassilios N. Koukoulidis
June 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 3
Publisher: IEEE Press
Full text available: pdf(300.68 KB) Additional Information: full citation, references, citings, index terms

Keywords: bandwidth aloocation, broadband ATM networks, radio LANs, wireless multimedia

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1 Hierarchical VP restoration management system for a reliable ATM backbone network

Won-Kyu Hong, Choong-Seon Hong
July 2002 **International Journal of Network Management**, Volume 12 Issue 4
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(360.98 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes a distributed ATM VP PVC restoration framework with the dynamic rerouting schemes in a hierarchical transport network. The rerouting algorithm aims to provide rapid ATM VP PVC restoration in the case of fault or performance degradation in terms of maximization of network resource utilization and satisfaction of the end user's QoS requirement.

2 Algorithms for computing QoS paths with restoration

Yigal Bejerano, Yuri Breitbart, Ariel Orda, Rajeev Rastogi, Alexander Sprintson
June 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 3
Publisher: IEEE Press
Full text available: pdf(748.50 KB) Additional Information: full citation, abstract, references, index terms

There is a growing interest among service providers to offer new services with Quality of Service (QoS) guarantees that are also resilient to failures. Supporting QoS connections requires the existence of a routing mechanism, that computes the QoS paths, i.e., paths that satisfy QoS constraints (e.g., delay or bandwidth). Resilience to failures, on the other hand, is achieved by providing, for each primary QoS path, a set of alternative QoS paths used upon a failure of either a link or a node. T ...

Keywords: QoS routing, approximation algorithms, restoration, restricted shortest path

3 Tree Adjoining Grammars in a fragment of the Lambek calculus

V. Michele Abrusci, Jacqueline Vauzeilles, Christophe Fouqueré
June 1999 **Computational Linguistics**, Volume 25 Issue 2
Publisher: MIT Press
Full text available: pdf(1.50 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

This paper presents a logical formalization of Tree Adjoining Grammar (TAG). TAG deals with lexicalized trees and two operations are available: substitution and adjunction.

Adjunction is generally presented as an insertion of one tree inside another, surrounding the subtree at the adjunction node. This seems to contradict standard logical ability. We prove that some logical formalisms, namely a fragment of the Lambek calculus, can handle adjunction.We represent objects and operations of the TAG ...

4 Contributed papers: Towards a proper treatment of coercion phenomena

Danièle Godard, Jacques Jayez

April 1993 **Proceedings of the sixth conference on European chapter of the Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

The interpretation of coercion constructions (*to begin a book*) has been recently considered as resulting from the operation of type changing. For instance, a phrase of type *o* (object) is coerced to a phrase of type *e* (event) under the influence of the predicate. We show that this procedure encounters empirical difficulties. Focussing on the *begin/commencer* case, we show that the coercion interpretation results both from general semantic processes and properties of the ...

5 Technical session 3: audio processing: Real-time background music monitoring based on content-based retrieval

Yoshiharu Suga, Naoko Kosugi, Masashi Morimoto

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia MULTIMEDIA '04**

Publisher: ACM Press

Full text available: pdf(3.16 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we describe music monitoring in TV broadcasting based on content-based retrieval. A part of audio signals is sequentially extracted from TV broadcasting as a retrieval key, and a music DB that stores a great number of musical pieces is retrieved by this key based on content-based retrieval, and a musical piece is identified sequentially. In this way, we are able to carry out music monitoring. There are three necessary requirements important for realization of the music monitori ...

Keywords: content-based retrieval, hashing, monitoring, music continuity, non-stationary noise, spectral peaks

6 Linguistics: poetics: Efficiency tools in the speeches of Martin Luther King, Jr.

M. Cassandra Foster Smith

September 1980 **Proceedings of the 8th conference on Computational linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(555.12 KB) Additional Information: full citation, abstract, references

This thesis represents the results of a computer-aided analysis of aspects of speeches of the Reverend Martin Luther King, Jr. Specifically, the analysis has investigated the occurrence of indicators of the efficiency function--tools facilitating the comprehension of a discourse by a hearer or reader--in four speeches of Dr. King.Contrary to the expectations of many who anticipate complex grammatical structures in the discourse of those who are speechmakers before many and diverse audiences, thi ...

7 Design verification and performance analysis

Marvin A. Wold

June 1978 **Proceedings of the 15th conference on Design automation DAC '78**

Publisher: IEEE Press

Full text available: pdf(558.01 KB) Additional Information: full citation, abstract, references, citings, index terms

The successful development of high speed digital computer systems usually requires that maximum performance be obtained from the selected technology. An optimum system design can be pursued only with confidence that the necessary performance levels can be achieved by the system components.7,8 Without that confidence the alternative is a more pessimistic "worst case" system design. The necessary confidence can only be achieved by a continuing evaluation of the timing characterist ...

8 Fortran 8X draft

Loren P. Meissner
December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4
Publisher: ACM Press
Full text available: pdf(21.36 MB) Additional Information: full citation, abstract, index terms

Standard Programming Language Fortran. This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

9 A thinning algorithm by contour generation

Paul Kwok
November 1988 **Communications of the ACM**, Volume 31 Issue 11
Publisher: ACM Press
Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A new contour generating serial algorithm is faster and more efficient than conventional contour tracing and parallel algorithms

10 A linear algorithm for incremental digital display of circular arcs

Jack Bresenham
February 1977 **Communications of the ACM**, Volume 20 Issue 2
Publisher: ACM Press
Full text available: pdf(561.77 KB) Additional Information: full citation, abstract, references, citings

Circular arcs can be drawn on an incremental display device such as a cathode ray tube, digital plotter, or matrix printer using only sign testing and elementary addition and subtraction. This paper describes methodology for producing dot or step patterns closest to the true circle.

Keywords: circle algorithm, circle drawing, dot generation, graphics, incremental digital plotting, integer arithmetic, raster display, step generation

11 Timing Verification and the Timing Analysis program

Robert B. Hitchcock
January 1982 **Proceedings of the 19th conference on Design automation DAC '82**
Publisher: IEEE Press
Full text available: pdf(982.05 KB) Additional Information: full citation, abstract, references, citings, index terms

Timing Verification consists of validating the path delays (primary input or storage element to primary output or storage element) to be sure they are not too long or too

short and checking the clock pulses to be sure they are not too wide or too narrow. The programs addressing these problems neither produce input patterns like test pattern generators nor require input patterns like traditional simulators. Several programs (described here) operate by tracing paths [P173, WO78, SA81, ...

12 DOCIL: An automatic system for printed circuit board (PCB) designing. A board description language and an algorithm to connect a set of points

Ma-Teresa de Pedro, Ricardo Garcia

January 1977 **Proceedings of the 14th conference on Design automation DAC '77**

Publisher: IEEE Press

Full text available: pdf(832.13 KB) Additional Information: full citation, abstract, index terms

DOCIL is a system that have been designed in order to produce the layout of a two side PCB from the data the human designer usually deals with. Two conditions that have been set for the system. First it is portability and second a small system feasibility. We will speak of this later. This work is composed by two parts: First of them a board description language, and second a routing algorithm. The language is used to specify the characteristics of the problem such as board size, ...

13 Skeletal/medial axis representations: Automating the CAD/CAE dimensional reduction process

Krishnan Suresh

June 2003 **Proceedings of the eighth ACM symposium on Solid modeling and applications SM '03**

Publisher: ACM Press

Full text available: pdf(375.33 KB) Additional Information: full citation, abstract, references, citings, index terms

Dimensional reduction is a simplification technique that eliminates one or more dimensions from a boundary value problem. It results in significant computational savings with minimal loss in accuracy. Existing dimensional reduction methods rely on a lower-dimensional geometric entity called the mid-element that is unfortunately ill defined for irregular thin solids.The main objective of this paper is to propose a new theory of 'skeletal dimensional reduction' that is superior to existing mid-ele ...

Keywords: CAD, CAE, dimensional reduction, engineering analysis, medial axis transforms, mid-plane, skeletal representations

14 Boundary networks

R. G. Loomis

January 1965 **Communications of the ACM**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(667.24 KB) Additional Information: full citation, references, citings, index terms

15 Research papers: streams and pipelined processing: QPipe: a simultaneously pipelined relational query engine

Stavros Harizopoulos, Vladislav Shkapenyuk, Anastassia Ailamaki

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data SIGMOD '05**

Publisher: ACM Press

Full text available: pdf(506.36 KB) Additional Information: full citation, abstract, references, citings

Relational DBMS typically execute concurrent queries independently by invoking a set of

operator instances for each query. To exploit common data retrievals and computation in concurrent queries, researchers have proposed a wealth of techniques, ranging from buffering disk pages to constructing materialized views and optimizing multiple queries. The ideas proposed, however, are inherently limited by the query-centric philosophy of modern engine designs. Ideally, the query engine should proactive ...

16 On the construction of LR(k) analyzers

Tatsuya Hayashi
January 1971 **Proceedings of the 1971 26th annual conference**
Publisher: ACM Press

Full text available: pdf(853.40 KB) Additional Information: full citation, abstract, references, citings, index terms

A method for constructing almost optimal Floyd-Evans type Productions for LR(k) grammars is described here. Knuth has given the algorithm for constructing the analyzer. But its parsing table is too large and unacceptable for practical use. The concept of route indexes is used in our method. Using the concept it is possible to transform the transition diagram of Knuth's analyzer into another equivalent one whose number of statuses is much less than that of Knuth's transition diagram. As the ...

Keywords: Analyzer constructor, Compiler compiler, Deterministic language, LR(k) analyzer, LR(k) grammar, Language processor, Parser, Production, Production language, Syntax analyzer, Translator

17 Graphic applications subroutine packages

William L. Dunne
July 1968 **Proceedings of the 5th annual workshop on Design automation DAC '68**
Publisher: ACM Press

Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, index terms

The Graphic Applications Subroutine Package, GASP, is a set of interdependent two-dimentional programs capable of producing drawings on an automatic digital plotter. GASP was justified and developed in an engineering support environment to satisfy certain requirements within the workload responsibilities of a production drafting room and within the engineering areas. In FORTRAN (G or H level) for the IBM System/360, the package utilizes plotter dependent routines through a simple standard i ...

18 Modeling the site planning of homogeneous uses

Christos I. Yessios
June 1972 **Proceedings of the 9th workshop on Design automation DAC '72**
Publisher: ACM Press

Full text available: pdf(802.68 KB) Additional Information: full citation, abstract, references, citings, index terms

The work presented here is part of a more general research project for Computer Implemented Site Planning (CISP), currently under development at the Institute of Physical Planning, C-MU. CISP is designed to respond to the typical site planning problem where the description of a site and the definitions of a set of uses (including relations and/or constraints to be satisfied) are given and we want to ...

19 An algorithm for searching shortest path by propagating wave fronts in four quadrants

Xiong Ji-Guang, Tokinori Kozawa
June 1981 **Proceedings of the 18th conference on Design automation DAC '81**
Publisher: IEEE Press

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(579.72 KB) terms

This paper discusses a new algorithm for searching the shortest path in VLSIs by propagating wave fronts in four quadrants. The algorithm has been experimentally programmed in FORTRAN IV on a Hitac M-200H computer. The main advantages of this algorithm are: 1. When there is a shortest path between two points, it can always be found by this algorithm; 2. In this algorithm, searching waves are divided into four quadrants. In each quadrant, waves advance or tra ...

20 Timing verification and the timing analysis program

R. B. Hitchcock

June 1988 **Papers on Twenty-five years of electronic design automation 25 years of DAC**

Publisher: ACM Press

Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms

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